

Please amend the above-captioned patent application as follows:

IN THE CLAIMS:

Please amend the claims as follows:

1.(Again amended) An optical sensing system for detecting target motion within a known environment, which comprises:

at least one vertical cavity surface emitting laser source ~~with~~including at least two laser signal emission apertures;

at least one detector operationally responsive to laser signals;

a microprocessor operationally coupled to said at least one detector; and

a motion analysis module in communication with said microprocessor for determining object motion;

wherein said laser source emits at least two laser signals into an environment sequentially through said at least two laser signal emission apertures, said at least one detector receives said at least two laser signals after said signals are sequentially emitted from said laser source, pass through said environment and interfere with a known target, and said microprocessor determines said target's motion based on differences between said signals received by said detector and input from said motion analysis module regarding object motion determination

5.(Again amended) An optical sensing system for detecting target motion within a known environment, which comprises:

a laser ~~with~~including at least two laser signal emission apertures, wherein said laser is adapted to emit at least two laser signals into an known environment sequentially through said at least two laser signal emission apertures;

at least one detector operationally responsive to receive laser signals~~said laser source;~~

a microprocessor operationally coupled to said at least one detector;

a memory for storing characteristics of a monitored environment including at least one of walls and objects contained in a room; and

a motion analysis module in communication with said microprocessor ~~for determining object motion;~~

~~wherein said laser source emits at least two laser signals into an environment, said at least one detector receives said at least two laser signals after said signals pass through~~ from said known environment and including laser signals that interfere with a target, and wherein said microprocessor determines said a known target's motion within said known environment based on a analysis of differences between said signals received by said detector, reference to said memory and input from said motion analysis module regarding object motion determination.